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Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 42297  
Application ID: 09730988  
Title of Invention: System and Method for  
Maintaining and Recovering Data  
Consistency in a Data Base Page  
First Named Inventor: Robert Mende  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2000-12-05  
Effective Receipt Date: 2003-06-23  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 8196  
Attorney Docket Number: 1452.3830000



RECEIVED

JUN 26 2003

Technology Center 2100

Total Fees Authorized:

Digital Certificate Holder: cn=Michael V. Messinger,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: 9e8dacd0e335580930f09b5ad89dd2dd918f6ccb

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

| <b>Title of<br/>Invention</b>  | <b>System and Method for Maintaining and Recovering Data<br/>Consistency in a Data Base Page</b> |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
|--|--|--|----------------------------------|--------------|--|---|------------|------------------------|---------------------|----------------------|------|-------------------------|--------------|
| <table><tr><td>Application Number:</td><td>09/730988</td><td rowspan="5"><b>RECEIVED</b><br/><br/>JUN 26 2003<br/><br/>Technology Center 2100</td></tr><tr><td>Date:</td><td>2000-12-05</td></tr><tr><td>First Named Applicant:</td><td>Robert G. Mende Jr.</td></tr><tr><td>Confirmation Number:</td><td>8196</td></tr><tr><td>Attorney Docket Number:</td><td>1452.3830000</td></tr></table>   |  |  | Application Number:              | 09/730988    | <b>RECEIVED</b><br><br>JUN 26 2003<br><br>Technology Center 2100 | Date:   | 2000-12-05 | First Named Applicant: | Robert G. Mende Jr. | Confirmation Number: | 8196 | Attorney Docket Number: | 1452.3830000 |
| Application Number:  | 09/730988  | <b>RECEIVED</b><br><br>JUN 26 2003<br><br>Technology Center 2100 |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| Date:  | 2000-12-05   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| First Named Applicant:   | Robert G. Mende Jr.  |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| Confirmation Number:   | 8196   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| Attorney Docket Number:  | 1452.3830000   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> |  |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Michael V. Messinger<br/>Registered Number: 37,575</td><td>/mvm/</td><td>Attorney</td></tr></tbody></table>  |  |  | Submitted by:                    | Elec. Sign.  | Sign. Capacity   | Michael V. Messinger<br>Registered Number: 37,575 | /mvm/      | Attorney               |                     |                      |      |                         |              |
| Submitted by:  | Elec. Sign.  | Sign. Capacity   |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| Michael V. Messinger<br>Registered Number: 37,575  | /mvm/  | Attorney   |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| <table><tr><td><b>Documents being submitted</b></td><td><b>Files</b></td></tr><tr><td>us-ids</td><td>IDS14523830000-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>   |  |  | <b>Documents being submitted</b> | <b>Files</b> | us-ids   | IDS14523830000-usidst.xml                         |            | us-ids.dtd             |                     | us-ids.xsl           |      |                         |              |
| <b>Documents being submitted</b>   | <b>Files</b>   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| us-ids   | IDS14523830000-usidst.xml  |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
|  | us-ids.dtd   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
|  | us-ids.xsl   |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |
| <b>Comments</b>  |  |  |                                  |              |  |   |            |                        |                     |                      |      |                         |              |



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of Invention   | System and Method for Maintaining and Recovering Data Consistency in a Data Base Page |            |            |                    |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|--|---|------------|------------|--------------------|------|----------|----------|-------|----------|--|---|---------|------------|-----------------|--|--|--|--|---|---------|------------|-----------------|--|--|--|--|---|---------|------------|----------------|--|--|--|--|---|---------|------------|-------|--|--|--|--|---|---------|------------|----------------|--|--|--|--|---|---------|------------|-----------------|--|--|--|--|---|---------|------------|-------|--|--|--|--|---|---------|------------|-------|--|--|--|--|---|---------|------------|-----------|--|--|--|--|----|---------|------------|--------------------|--|--|--|--|----|---------|------------|---------|--|--|--|--|----|---------|------------|------------------|--|--|--|--|----|---------|------------|-------------|--|--|--|--|----|---------|------------|-------------|--|--|--|--|----|---------|------------|--------|--|--|--|
| <p>Application Number: 09/730988</p> <p>Confirmation Number: 8196</p> <p>First Named Applicant: Robert Mende</p> <p>Attorney Docket Number: 1452.3830000</p> <p>Search string: ( 4843542 or 4907228 or 5193162 or 5247672 or 5263142 or 5301290 or 5414839 or 5418940 or 5561708 or 5577261 or 5694546 or 5802582 or 5819292 or 5828876 or 5887167 or 5966706 or 5987506 or 6006299 or 6016158 or 6041423 or 6128623 or 6151659 or 6199141 or 6226651 or 6286092 or 6393533 ),pn.</p> <p><b>RECEIVED</b><br/><b>JUN 26 2003</b><br/><b>Technology Center 2100</b></p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4843542</td><td>1989-06-27</td><td>Dashiell et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4907228</td><td>1990-03-06</td><td>Bruckert et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>5193162</td><td>1993-03-09</td><td>Bordsen et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5247672</td><td>1993-09-21</td><td>Mohan</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5263142</td><td>1993-11-16</td><td>Watkins et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5301290</td><td>1994-04-05</td><td>Tetzlaff et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5414839</td><td>1995-05-09</td><td>Joshi</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5418940</td><td>1995-05-23</td><td>Mohan</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5561708</td><td>1996-10-01</td><td>Remillard</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>5577261</td><td>1996-11-19</td><td>Harinarayan et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5694546</td><td>1997-12-02</td><td>Reisman</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>5802582</td><td>1998-09-01</td><td>Ekanadham et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>13</td><td>5819292</td><td>1998-10-06</td><td>Hitz et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>14</td><td>5828876</td><td>1998-10-27</td><td>Fish et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>15</td><td>5887167</td><td>1999-03-23</td><td>Sutton</td><td></td><td></td><td></td></tr></tbody></table> |   | init       | Cite.No.   | Patent No.         | Date | Patentee | Kind     | Class | Subclass |  | 1 | 4843542 | 1989-06-27 | Dashiell et al. |  |  |  |  | 2 | 4907228 | 1990-03-06 | Bruckert et al. |  |  |  |  | 3 | 5193162 | 1993-03-09 | Bordsen et al. |  |  |  |  | 4 | 5247672 | 1993-09-21 | Mohan |  |  |  |  | 5 | 5263142 | 1993-11-16 | Watkins et al. |  |  |  |  | 6 | 5301290 | 1994-04-05 | Tetzlaff et al. |  |  |  |  | 7 | 5414839 | 1995-05-09 | Joshi |  |  |  |  | 8 | 5418940 | 1995-05-23 | Mohan |  |  |  |  | 9 | 5561708 | 1996-10-01 | Remillard |  |  |  |  | 10 | 5577261 | 1996-11-19 | Harinarayan et al. |  |  |  |  | 11 | 5694546 | 1997-12-02 | Reisman |  |  |  |  | 12 | 5802582 | 1998-09-01 | Ekanadham et al. |  |  |  |  | 13 | 5819292 | 1998-10-06 | Hitz et al. |  |  |  |  | 14 | 5828876 | 1998-10-27 | Fish et al. |  |  |  |  | 15 | 5887167 | 1999-03-23 | Sutton |  |  |  |
| init   | Cite.No.  | Patent No. | Date       | Patentee           | Kind | Class    | Subclass |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 1   | 4843542    | 1989-06-27 | Dashiell et al.    |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 2   | 4907228    | 1990-03-06 | Bruckert et al.    |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 3   | 5193162    | 1993-03-09 | Bordsen et al.     |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 4   | 5247672    | 1993-09-21 | Mohan              |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 5   | 5263142    | 1993-11-16 | Watkins et al.     |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 6   | 5301290    | 1994-04-05 | Tetzlaff et al.    |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 7   | 5414839    | 1995-05-09 | Joshi              |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 8   | 5418940    | 1995-05-23 | Mohan              |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 9   | 5561708    | 1996-10-01 | Remillard          |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 10  | 5577261    | 1996-11-19 | Harinarayan et al. |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 11  | 5694546    | 1997-12-02 | Reisman            |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 12  | 5802582    | 1998-09-01 | Ekanadham et al.   |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 13  | 5819292    | 1998-10-06 | Hitz et al.        |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 14  | 5828876    | 1998-10-27 | Fish et al.        |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |
|  | 15  | 5887167    | 1999-03-23 | Sutton             |      |          |          |       |          |  |   |         |            |                 |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |                |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |           |  |  |  |  |    |         |            |                    |  |  |  |  |    |         |            |         |  |  |  |  |    |         |            |                  |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |             |  |  |  |  |    |         |            |        |  |  |  |

|  |    |         |            |                   |    |
|--|----|---------|------------|-------------------|----|
|  | 16 | 5966706 | 1999-10-12 | Biliris et al.    |    |
|  | 17 | 5987506 | 1999-11-16 | Carter et al.     |    |
|  | 18 | 6006299 | 1999-12-21 | Wang et al.       |    |
|  | 19 | 6016158 | 2000-01-18 | Mackinnon         |    |
|  | 20 | 6041423 | 2000-03-21 | Tsukerman         |    |
|  | 21 | 6128623 | 2000-10-03 | Mattis et al.     |    |
|  | 22 | 6151659 | 2000-11-21 | Solomon et al.    |    |
|  | 23 | 6199141 | 2001-03-06 | Weinreb et al.    | B1 |
|  | 24 | 6226651 | 2001-05-01 | Masuda et al.     | B1 |
|  | 25 | 6286092 | 2001-09-04 | Frank et al.      | B1 |
|  | 26 | 6393533 | 2002-05-21 | Mende, Jr. et al. | B1 |

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